

FIG. 1

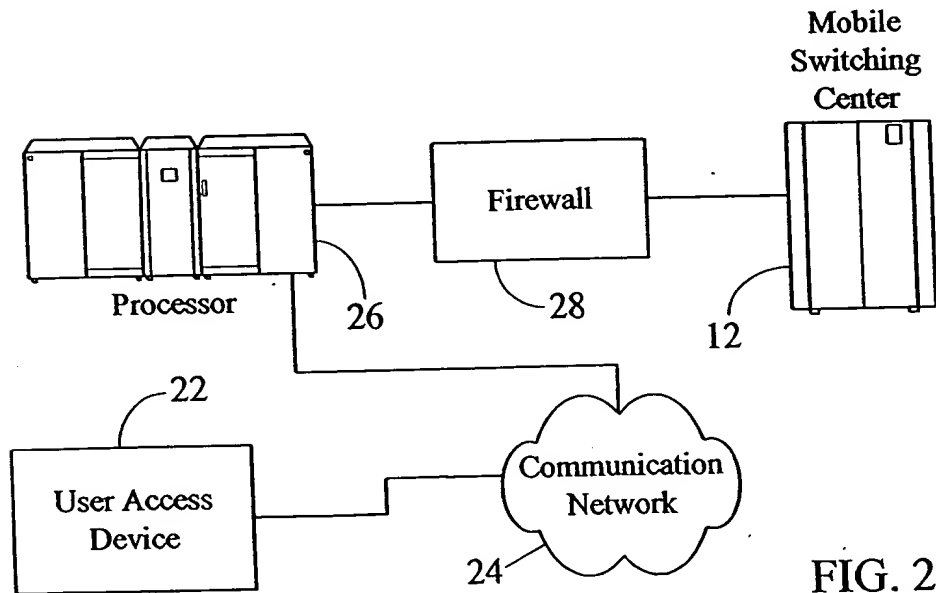


FIG. 2

006227" 6545260

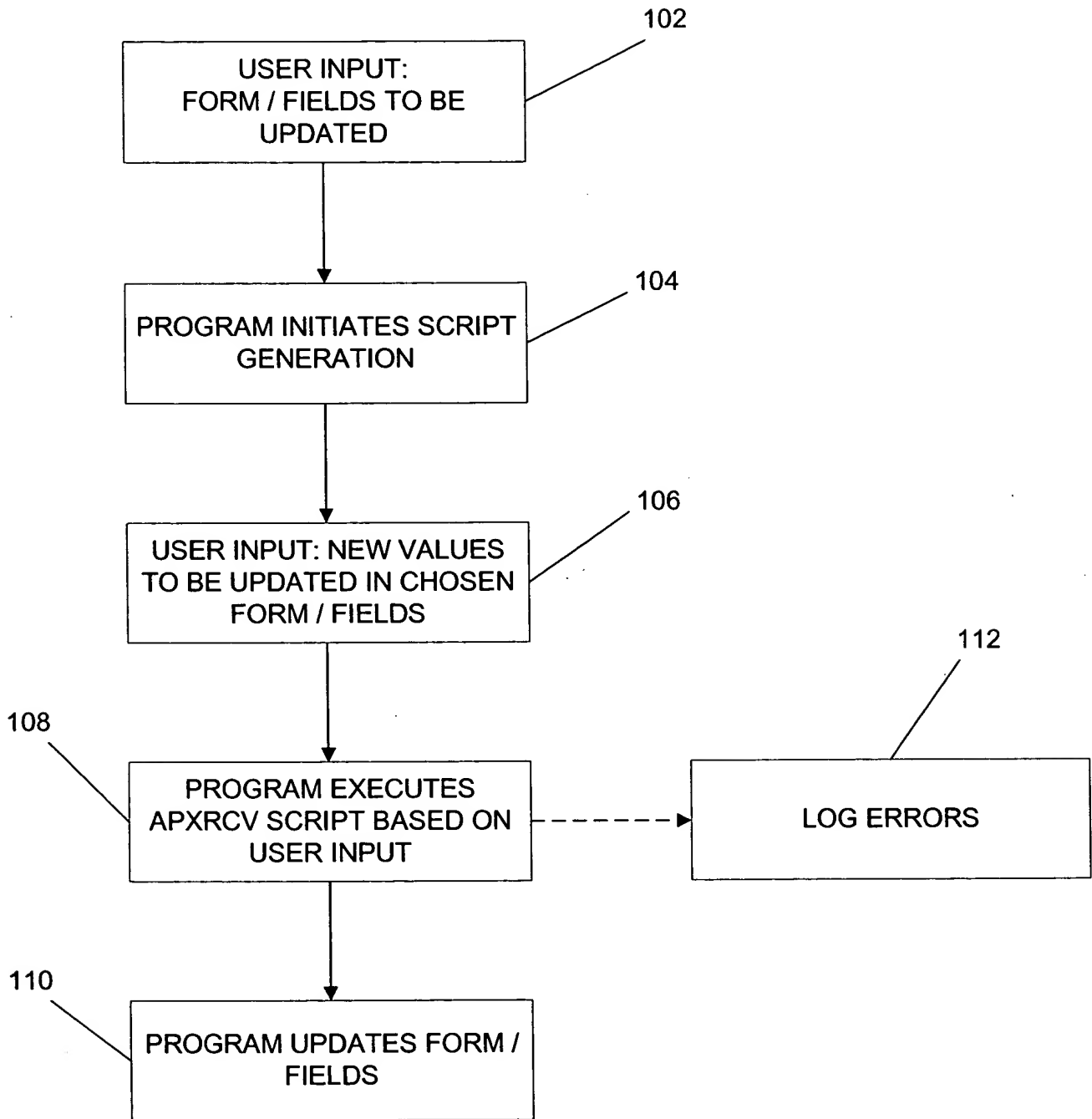


FIG. 3

```

graph TD
    122[RF FREQUENCY GROUP  
GENERATES DATA FILES] --> 124[DATA FILES INPUT TO MAIN  
PROGRAM]
    124 --> 126["CREATE FILES:  
ctmret.i  
tpptmret.i  
dcchret.i  
dcchrad.i  
ceqsuret.i  
reselret.i  
fciret.i"]
    126 --> 128[SEND FILE dcchrad.i TO ECP]
    128 --> 130["CREATE APXRCV SCRIPT  
FILES:  
E1dcch.ret  
E1ctm.ret/E1tppt.ret"]
    130 --> 132[CHECK FOR PCS  
SYSTEM]
    132 -- NO --> 134["CREATE APXRCV  
SCRIPT FILE  
E1ceqsu.ret"]
    132 -- YES --> 136["CREATE APXRCV  
SCRIPT FILE  
E1resel.ret"]
    134 --> 136
    136 --> A((A))

```

FIG. 4A

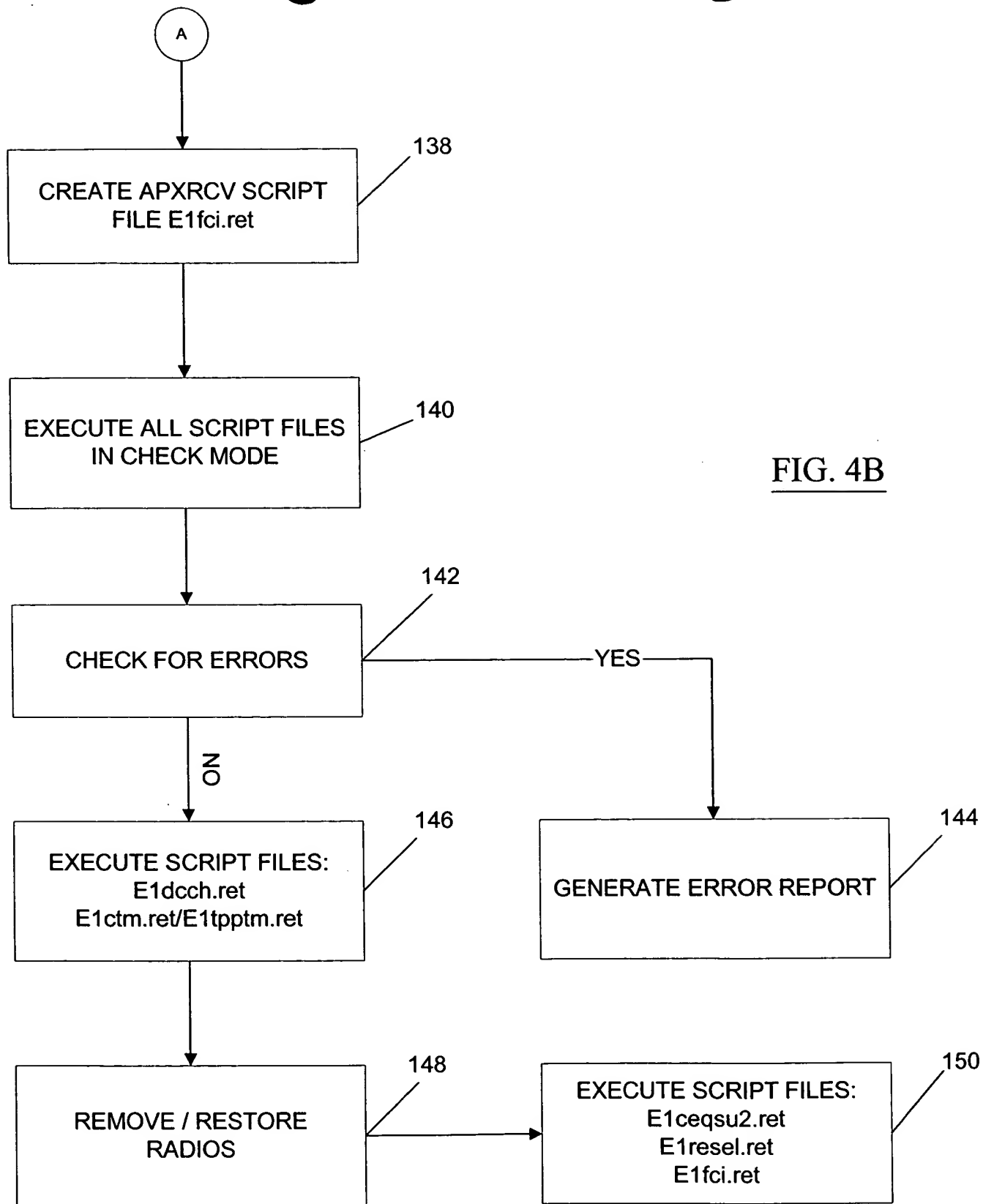


FIG. 4B

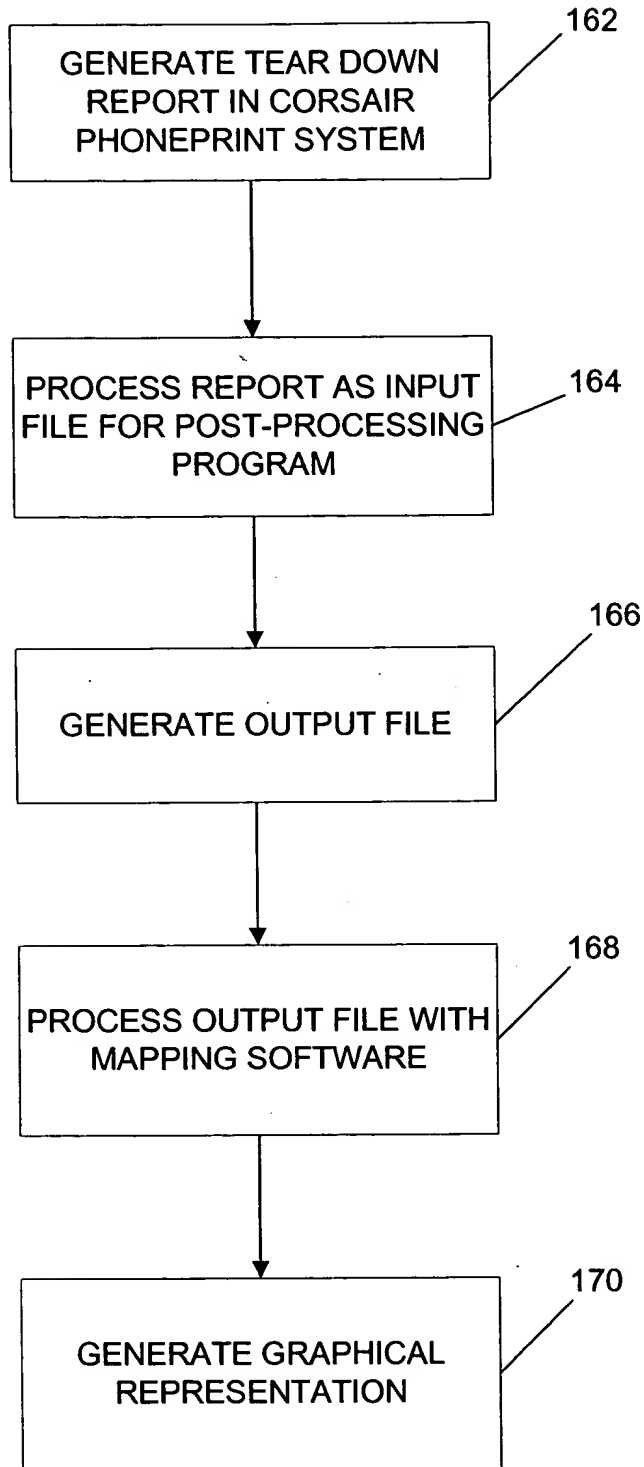


FIG. 5

006221-6545260

```

>pg pp9912.txt
Date      Time(2) Site_ID MIN(1) Dialed_Digits Tear-Down_Reason
12/25/99  19:26:09 20      2012075854 12014981322 MFG
12/23/99  14:56:20 219     2012075854 5617767114 MFG
12/26/99  21:40:32 167     2012130072 19547814445 MFG
12/23/99  19:06:49 82      2012134416 9544289147 MFG
12/23/99  19:06:23 82      2012134416 9544289147 MFG
12/25/99  17:23:55 82      2012134416 9544285083 MFG
12/25/99  15:06:20 82      2012134416 2015680907 MFG
12/25/99  13:04:16 82      2012134416 2015680907 MFG
12/25/99  13:04:05 82      2012134416 2015680907 MFG
12/25/99  13:03:53 82      2012134416 2015680907 MFG
12/25/99  13:03:31 82      2012134416 2015680907 MFG
12/25/99  13:01:49 82      2012134416 2015680907 MFG
12/25/99  12:53:38 82      2012134416 2015680907 MFG
12/25/99  12:52:32 82      2012134416 2015680907 MFG
12/25/99  12:52:03 82      2012134416 2015680907 MFG
12/25/99  12:50:48 82      2012134416 2015680907 MFG
12/25/99  12:48:15 82      2012134416 2015680907 MFG
12/25/99  12:47:16 82      2012134416 5680907 MFG
12/24/99  11:58:50 82      2012134416 8003328463 MFG
12/24/99  11:58:08 82      2012134416 8003328463 MFG
12/24/99  10:03:16 82      2012134416 9544289147 MFG
12/22/99  14:58:09 80      2012300764 19546167166 MFG
12/29/99  10:54:28 177     2012400657 19086881800 MFG
12/29/99  10:51:49 177     2012400657 9412503698 MFG
12/29/99  10:25:04 145     2012400657 12012400657 MFG
12/29/99  10:24:42 145     2012400657 12012400657 MFG
12/27/99  21:26:01 49      2012476225 15616551115 MFG
12/24/99  19:22:48 219     2012476225 15615551212 MFG
12/24/99  19:22:26 219     2012476225 15615551212 MFG
12/24/99  19:22:06 219     2012476225 15615551212 MFG
12/24/99  19:13:38 219     2012476225 5617950022 MFG
12/27/99  12:01:06 20      2012476225 15614996976 MFG
12/23/99  16:23:47 12      2012640686 3105152822 MFG
12/23/99  16:17:19 12      2012640686 3105152822 MFG
12/23/99  16:17:03 12      2012640686 3105152822 MFG

```

FIG. 6

```

>pg map1239
ECP,CellNo,Longitude,Latitude,Count
4.1,-80.1675,26.155278,148
3.5,-80.361111,25.699444,209
1.6,-80.171667,26.36.675
1.7,-80.114167,26.562778,173
1.8,-80.109722,26.760556,76
3.9,-80.317222,25.679444,311
3.10,-80.266667,25.747222,115
4.12,-80.29,26.183333,268
3.13,-80.422778,25.526111,164
4.15,-80.123056,25.854167,510
4.16,-80.198611,26.248889,401
1.18,-80.088889,26.45,380
1.20,-80.058611,26.651944,216
4.22,-80.210833,25.848611,138
4.23,-80.128889,26.085833,844
4.25,-80.288889,25.845556,55
1.26,-80.201111,26.630833,251
4.27,-80.204722,25.93,590
3.28,-80.360833,25.596667,255
3.29,-80.333889,25.649444,584
4.30,-80.415,26.086389,207
4.31,-80.175833,26.121944,128
1.37,-80.681389,26.686667,213
4.40,-80.364444,25.828333,156
4.42,-80.286944,25.920556,147
4.43,-80.168056,26.024722,333
3.46,-80.129167,25.793611,2694
3.47,-80.238611,25.811389,121
1.49,-80.051667,26.711944,381
4.50,-80.160556,25.908611,187
4.52,-80.26,26.121667,456
4.53,-80.105556,26.136389,501
3.54,-80.383333,25.653056,81
4.55,-80.249444,26.268333,314
3.56,-80.294722,25.703889,184
3.57,-80.315,25.808333,21
3.58,-80.265278,25.788333,267
4.60,-80.25,25.891667,205
4.61,-80.090833,26.230278,147
4.64,-80.211667,26.0175,595

```

FIG. 7

006221-6545460

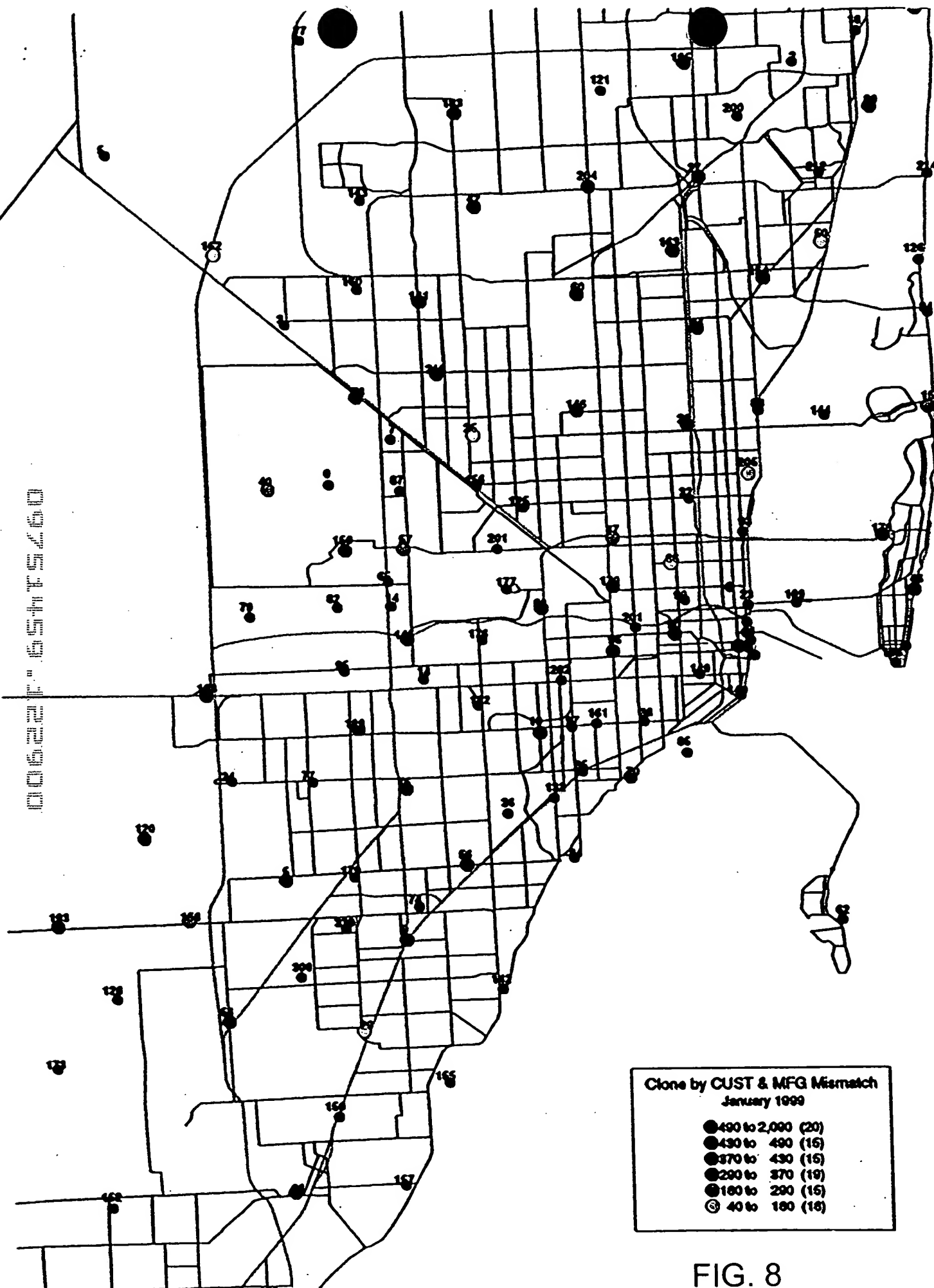


FIG. 8





SAMPLE Ericsson log

MOBILE TELEPHONY CELL TRAFFIC RECORDING  
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20
SSSTDRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0
BQRCV	TDRVC	FREQERR	TIMEALIGN	MSPOW
15	0	1	0	2
NCELL	NSSFFMC	MEASCHAN	VIND	
T017A	5	1260	Y	
T017B	23	1272	Y	
T006B	17	1300	Y	
T016B	13	1305	Y	
T004A	29	1251	Y	
T005B	33	1302	Y	
T005A	23	1290	Y	
T018A	21	1294	Y	
T154B	21	1303	Y	
TIME	PRINTIND	FCODE		
11:08:27	0			

END

MOBILE TELEPHONY CELL TRAFFIC RECORDING CANDIDATE LIST FOR  
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:27		0
CANDCELL	CELLTYPE	NTYPE	RATING	
T005B	0	STD	0	

END

FIG. 10

006227-654260

[illegible][illegible]

FIG. 11A

FT  
--

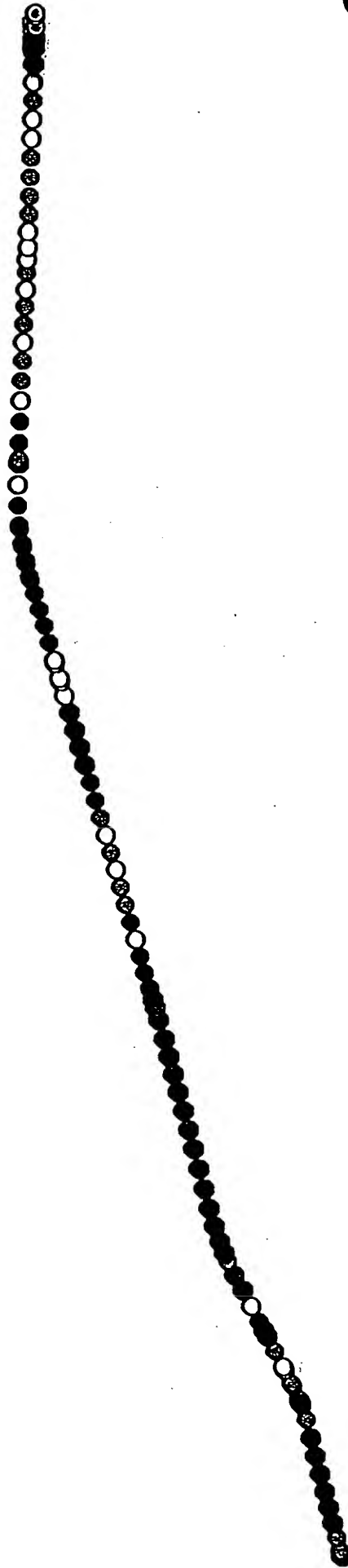
R, RBER, FER, BQ, TD, FREQ, TIME, MS, PRINT  
DEV, FVC, RVC, TDRVC, FVC, RVC, RVC, RVC, RVC, RVC, ERR, ALIG

28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0070392,9412580201,T005B,MDVC-  
2,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
992,9412580201,T005B

FIG. 11B

00622T"6ST5260

FIG. 12



xiel\_ddd by FVC-118

●	-75 to -61	(34)
○	-79 to -75	(46)
⊗	-83 to -79	(46)
●	-85 to -83	(27)
●	-85 to -86	(47)

Comarco File

-----  
13:20:00.8,26.677,-81.567  
13:20:01.2,25.230,-81.456  
.....  
.....  
.....  
13.21.00.3,28.655,-81.2128

FIG. 13A

00622T 694T5260

Time, Long, Lat, CellNo, SS,

12:41:29, 28.6559300, -81.205792000, 1353, -124  
12:41:29, 28.6559300, -81.205792000, 201, -106  
12:41:29, 28.6559300, -81.205792000, 32, -106  
12:41:29, 28.6559300, -81.205792000, 321, -76  
12:41:29, 28.6559300, -81.205792000, 323, -66  
12:41:29, 28.6559300, -81.205792000, 831, -100  
12:41:30, 28.6559260, -81.205580000, 323, -66  
12:41:31, 28.6559170, -81.205380000, 321, -75  
12:41:31, 28.6559170, -81.205380000, 321, -75  
12:41:31, 28.6559170, -81.205380000, 323, -64  
12:41:32, 28.6559080, -81.205198000, 323, -63  
12:41:33, 28.6558950, -81.204922000, 321, -73  
12:41:33, 28.6558950, -81.204922000, 323, -62  
12:41:34, 28.6558900, -81.204769000, 321, -73  
12:41:34, 28.6558900, -81.204769000, 321, -73  
12:41:34, 28.6558900, -81.204769000, 322, -98  
12:41:34, 28.6558900, -81.204769000, 323, -61  
12:41:35, 28.6558900, -81.204577000, 1353, -124  
12:41:35, 28.6558900, -81.204577000, 201, -105  
12:41:35, 28.6558900, -81.204577000, 202, -106  
12:41:35, 28.6558900, -81.204577000, 32, -105  
12:41:35, 28.6558900, -81.204577000, 323, -63  
12:41:35, 28.6558900, -81.204577000, 831, -99  
12:41:37, 28.6558970, -81.204219000, 321, -73  
12:41:37, 28.6558970, -81.204219000, 323, -67  
12:41:38, 28.6559000, -81.204044000, 321, -74  
12:41:38, 28.6559000, -81.204044000, 323, -67  
12:41:38, 28.6559000, -81.204044000, 321, -74  
12:41:38, 28.6559000, -81.204044000, 323, -67  
12:41:40, 28.6559020, -81.203683000, 1353, -122  
12:41:40, 28.6559020, -81.203683000, 202, -104  
12:41:40, 28.6559020, -81.203683000, 32, -105  
12:41:40, 28.6559020, -81.203683000, 321, -73  
12:41:40, 28.6559020, -81.203683000, 322, -96  
12:41:40, 28.6559020, -81.203683000, 323, -67  
12:41:41, 28.6559070, -81.203457000, 321, -72  
12:41:41, 28.6559070, -81.203457000, 323, -66  
12:41:42, 28.6559100, -81.203125000, 321, -71  
12:41:42, 28.6559100, -81.203125000, 323, -66

FIG. 13B

006222T-122600

```

v----- Record # 1: -----v
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457
Call Monitor: Call Record has been Written in RAM disk
Ph#:(407)9223002 Call clear by MS - mobile clear
v----- Record # 2: -----v
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -77 attn 4 snr 40
v----- Record # 3: -----v
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -73
v----- Record # 264: -----v
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 201 / -98
v----- Record # 265: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 322 / -103
v----- Record # 266: -----v
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 831 / -96
v----- Record # 267: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 321 / -78
v----- Record # 268: -----v
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 1353 / -113
v----- Record # 269: -----v
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 202 / -100
v----- Record # 270: -----v
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -72 attn 4 snr 40
v----- Record # 271: -----v
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -71
v----- Record # 272: -----v
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 32 / -115

```

FIG. 14



00622T"694560



FIG. 15

tra0528\_out by SS

- -65 to -66 (400)
- -62 to -65 (534)
- -66 to -62 (466)
- -106 to -66 (540)
- -116 to -106 (482)
- -127 to -116 (566)